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Check List
of
New Plant Introductions
Ready to be Tested by Cooperators,
1918-19.

To be checked and returned to the Office of Foreign Seed and Plant Introduction, Department of Agriculture, Washington, D. C.

Please read the special notice on the reverse of this page;

then carefully check the plants desired in the lists following, and return the lists promptly in the accompanying franked envelope. It will aid this Office in its distribution work if each experimenter will fill out the form below, and make no other notes or requests on the check lists themselves.

****

Give here your permanent address for letters:

Name of experimenter:.....
P. O. Box,
R. F. D. No.,
Street and No.,.....

Post Office,.....State,.....

Do you wish plant material sent to the above address?.....
If not, fill out the following *mail address* for plant material.
Name of person who will receive plants,.....

P. O. Box,
R. F. D. No.,
Street and No.,.....

Post Office,.....State,.....

Are you willing to pay expressage on the plants which you request?..... If so, give the Express Office to which you wish the plants shipped.

Express Office,.....

Are plants wanted for open ground culture?.....
" " " " greenhouse?.....
How much land have you available for experimental planting and how much do you wish to devote to such planting?.....

.....

Is this land owned or leased by you?.....

SPECIAL NOTICE.

These CHECK LISTS represent the seeds and plants which will be distributed this season, and are supplied to applicants for planting on their own grounds or on land controlled by them.

Unless directed not to do so we may substitute certain plants for others which are requested and which we cannot for one reason or another supply.

The Postal Regulations make it *unlawful* for this Office to send under Government frank from any one of our Plant Introduction Field Stations, to any one person more than a *single four-pound package* of plants at one time.

Applicants must keep this in mind and *if they desire more than a four-pound package of plants must indicate their willingness to pay expressage* on the plants they request, stating how heavy a package we may send and from what Field Stations they are willing we should ship from by express.

Owing to the great congestion in express traffic, where possible, plants will be shipped from the Field Station nearest the applicant's place of residence. The plants on the list marked Yarrow are grown and will be shipped, from the Field Station in Maryland, those marked Brooksville from the West Florida Station, those marked Chico from Northern California, and those marked Miami from Southern Florida. The figures following the names indicate the number of plants which will be distributed this season.

CHECK LIST

of

PLANTS FOR DISTRIBUTION

GROWN AT THE PLANT INTRODUCTION FIELD STATION MIAMI, FLA.

44914	ACACIA SPADICIGERA. Bull-horn Acacia. - From Vera Cruz, Mexico.	17
44856	ACHRAS ZAPOTA. Sapodilla. - From Dutch West Indies.	33
44866	" "	32
42355	ADENANTHERA PAVONINA. Coral-bean tree. - From Madagascar.	5
44841	ANNONA CHERIMOLA. Cherimoya.	14
45487	" " "	6
45077	" " "	9
45106	" " "	125
45327	" " "	35
45576	" " "	90
36562	ANNONA CHERIMOLA X SQUAMOSA. Hybrid between cherimoya and sugar-apple.	135
45548	ANNONA DIVERSIFOLIA. Ilama, or Annona blanca. - From Guatemala.	50
43447	ANNONA MURICATA. Soursop. - From Costa Rica.	3
44770	ANNONA SQUAMOSA. Sugar-apple. - From Allahabad, India.	2
31835	ASPARAGUS FALCATUS. New ornamental asparagus, from Natal, South Africa.	9
42707	ATTALEA COHUNE. Oil palm. - From Honduras.	4
43055	ATTALEA SP. Palm.	16
44240	BAMBOS TULDA. Bamboo. - From India, yielding the "Calcutta cane". Used in the manufacture of split bamboo fishing rods.	5000
42812	BERTHOLLETIA NOBILIS. Brazil nut. - From Para, Brazil.	7
43114	" " " "	12
44796	BROMELIA CHRYSANTHA. Ornamental plant from Venezuela.	56
43038	BUCHANANIA LATIFOLIA. Tree from India, bearing an edible seed and oil.	2
44816	CAESALPINIA MELANOCARPA. Ornamental tree from Paraguay.	84
43643	CAESALPINIA PECTINATA. Shrub or small tree from Peru; pods used for tanning.	4
43375	CANARIUM INDICUM. Java almond. - Bears edible nuts.	5
43376	" " " "	6
45346	CARICA PAPAYA. Papaw. - From many localities; bears large, edible fruits.	12
	CARICA PAPAYA. (F.H.B. 23392).	24
	" " (F.H.B. 23391).	12
41506	CARISSA CARANDAS. Spiny hedge plant from India; bears an edible fruit.	60
34364	CARISSA CARANDAS. Spiny hedge plant from India.	3
11734	CARISSA GRANDIFLORA. Natal-plum. - Spiny shrub from South Africa, bearing a fine red, plum-like fruit. Good hedge plant.	45
44910	CASSIA TOMENTOSA. Fine yellow-flowered ornamental shrub from South America.	5
44532	CASUARINA CUNNINGHAMIANA. Ornamental Australian tree somewhat resembling a pine.	7
24714	CATHA EDULIS. Khat. - From Abyssinia. Much cultivated in Arabia for its leaves, which contain an alkaloid.	46
37900	CELTIS MORIFOLIA. Hackberry. - From Brazil; fruits edible.	6
45104	CHRYSOPHYLLUM SP. Purple Star-apple. - From Cuba.	20
44114	COCCOLOBIS SP. Jarra. - Allied to the sea-grape; from Costa Rica.	115
45103	CRESCENTIA ALATA. Ornamental Mexican tree, closely allied to the Calabash tree; bears hard, brown, globose fruits.	80
43419	ENTADA POLYSTACHYA. Woody, white-flowered vine from Colombia.	8

44470 FICUS PSEUDOPALMA. Ornamental ficus tree from the Philippines. 65

36020 FICUS SAEMOCARPA. Ornamental ficus tree from Saharanpur, India. 16

13138 FICUS SYCOMORUS. Wild fig from Rhodesia, South Africa. 18

29359 FICUS UTILIS. Ornamental ficus from East Africa. 40

44858 GUAIACUM OFFICINALE. Small tree from Guatemala; sometimes called Lignum vitae. 500

42522 INODES NEGLECTA. Ornamental palm from Santa Domingo. 285

19203 IPOMOEA HORSFALLIAE BRIGGSII. Evergreen red-flowered morning-glory from South America. 6

45352 JUGLANDS MOLLIS. Walnut. - From Guatemala; growing to a height of forty feet. 2

42539 LEUCAENA GLAUCA. Small, white-flowered tree from Argentina; much used for hedges. 3

42371 LONCHOCARPUS FORMOSIANUS. A lilac-flowered tree from Senegal. 2

44775 PHYLLOCARPUS SEPTENTRIONALIS. Monkey flower. - Flowering tree from Guatemala. 35

44769 MACADAMIA TERNIFOLIA. Queensland nut. - Tall evergreen tree, bearing a delicious edible nut; not hardy. 18

40215 MORUS ALBA. Mulberry. - From Afghanistan; fruits are dried and form important food of Afghans. 40

44773 NANNORRHOPS RITCHIEANA. Palm. - From India; leaves yield a strong fiber for hat making. 20

44757 OMPHALOPHTHALMA RUBRA. Climbing woody vine, bearing purple flowers; from St. Martin, B. W. I. 7

36270 PERSEA AMERICANA. West Indian Avocado. - 'Simmonds.' Fruit weighs about 24 oz; ripens late in summer; quality good. 180

46337 PERSEA AMERICANA. Mexican Avocado. - Fruit ripens late August to October; quite frost resistant. 65

27570 PONGAM PINNATA. Ornamental leguminous tree from India: bears clusters of pink and white flowers. 125

45485 PTEROGYNE NITENS. Useful timber tree from Argentina. Wood strong; used in the manufacture of carts. 363

45157 SAPINDUS OAHUENSIS. Hawaiian Soap-tree. - Flesh surrounding the seed contains saponin. 6

SIDEROXYLON SP. - Edible fruited shrub, 6 ft. high; from West Africa; allied to sapodilla. 11

42596 STRYCHNOS SPINOSA. Kaffir orange. - Evergreen shrub 8 to 10 feet, bearing orange-like fruit; acidulous, edible pulp. 500

42903 STRYCHNOS SPINOSA. Kaffir orange. 150

44060 VITIS TILIAEFOLIA. Grape. - From Guatemala; bears sour fruit which makes an excellent jelly. 80

45625 ZIZIPHUS MAURITIANA. Indian jujube. - From Saharanpur, India. Fruits edible; also used dried; pulp mealy sweet, pleasant taste; plant tender. 21

45627 ZIZIPHUS MAURITIANA. Indian jujube. 1

45628 " " " " 11

45629 " " " " 5

45630 " " " " 2

45631 " " " " 3

45632 " " " " 3

45634 " " " " 5

45636 " " " " 7

45641 " " " " 2

45645 " " " " 2

45646 " " " " 3

45653 " " " " 4

45648 " " " " 2

45657 " " " " 16

45658 " " " " 2

44940 " " " " 146

45639 " " " " 6

45656 " " " " 7

44442 " MISTOL. Mistol. - From Tucuman, Argentina; bears small, edible, black fruits. 658

44436 " MISTOL. Mistol. 83

CHECK LIST

of

PLANTS FOR DISTRIBUTION

GROWN AT THE PLANT INTRODUCTION FIELD STATION BROOKSVILLE, FLA.

45946 ACTINIDA CHINENSIS. Yang tao. - A very ornamental Chinese vine; bears a heavy plumlike fruit which is excellent fresh or preserved. 20

44240 BAMBOS TULDA. Bamboo. - Known as "Calcutta cane", from India; grows to a height of 70 feet. Canes are used to make split bamboo fishing rods. Tender. 9000

44441 CAESALPINIA MELANOCARPA. Guayacan. - Tall, spreading hardwood tree from Argentina. Wood used in the manufacture of carts, etc. 23

44110 CARICA PAPAYA. Papaya. - Rapid-growing fruit tree; pistillate plants bear melon-shaped fruits on the trunk, good varieties, sweet with good flavor. Fruits contain papain. 500

44745 CORYNOCARPUS LAEVIGATA. Handsome evergreen tree from New Zealand with glossy laurel-like leaves, small white flowers, and orange-colored fruit, the outside of which is poisonous. Kernel edible. 23

44536 DODONEA THUNBERGIANA. South African shrub, 5 to 10 feet high, bears dense racemes of green flowers. 30

45726 DODONEA VISCOSA. Evergreen shrub from Egypt, suitable for hedges, as it responds to pruning, and makes a compact wall of green; not hardy. 170

36706 HELICTERES OVATA. Malvaceous shrub somewhat resembling an abutilon. The chief interest of this plant is the spirally twisted seed pod about the size of an almond. 18

43760 ILEX PARAGUARIENSIS. Small evergreen tree, the dried leaves of which take the place of tea in many South American countries. Sold under the name of Maté. 90

46241 LAWSONIA INERMIS. Cypress shrub or Egyptian privet. - Attains a height of 8 to 10 feet; its powdered leaves are used as a hair dye. 58

44848 LEPTOSPERMUM SCOPARIUM. New Zealand shrub, attaining a height of 6 to 10 feet bearing numerous white or pinkish, odorless flowers up to ¾ of an inch in width. Wood used as fuel gives great heat. 48

44849 LEPTOSPERMUM SCOPARIUM. Same description as for 44848. 15

44666 LIQUIDAMBAR FORMOSANA. Ornamental Chinese tree up to 120 feet high, resembles the American sweet gum. 165

44888 MELIA FLORIBUNDA. Considered to be a free-flowering form of the China-berry tree. Received from France. 39

44854 PASSIFLORA EDULIS. Passion fruit. - Vine from New Zealand; plants raised from seed of a selected strain, bearing large fruit, not hardy. 56

45226 PASSIFLORA EDULIS. 11

43437 PASSIFLORA LIGULARIS. Grandilla. - Climbing vine from Guatemala; bears a fruit about 2 by 1½ inches, orange-yellow in color, contains many small seeds surrounded by gelatinous sweet pulp. 46

44242 PHELLODENDRON SACHALINENSE. Hardy ornamental tree from western China, reaching a height of 50 feet; flowers inconspicuous, followed by clusters of black fruits. 100

44768 PISTACIA CHINENSIS. Tall, deciduous, pinnate-leaved tree from China; leaves color beautifully in fall; fine shade and lawn tree. 21

43189 PTEROCARPUS MARSUPIUM. Wide spreading tree from South India; fine shade and street tree; yields a valuable hard wood; not hardy. 15

38646 RUBUS BOGOTENSIS. Blackberry. - From Colombia. Said to bear a very large fruit; not hardy. 50

41265 RUBUS SP. Raspberry. - From China. Low growing with red fruits of good size and fair quality. 2000

43009 SAPINDUS SAPONARIA. Tree from Colombia, reaching a height of 50 to 60 feet. Bears berry-like seeds known as soap-berries. The outer covering or shell contains saponine which in water produces a lather. 46

42034 SOLANUM QUITOENSE. Naranjilla. - From Ecuador, bears a small, acid, orange-like fruit much used by the natives as an article of diet. 11

44670 TRACHYCARPUS EXCELSUS. Tall growing palm from China: large, fan shaped, finely cut leaves; plant stands considerable frost. 18

44060 VITIS TILIAEFOLIA. Grape. - From Guatemala; the fruits make a delicious jelly; especially suited to the tropics and semi-tropics. 75

44442 ZIZIPHUS MISTOL. Mistol. - From Argentina. Spiny tree growing to 30 feet in height; bears edible, black fruits 1/3 inch in diameter. 145

CHECK LIST

of

PLANTS FOR DISTRIBUTION GROWN AT THE

YARROW PLANT INTRODUCTION FIELD STATION, ROCKVILLE, MD.

44438 ABUTILON SP. Handsome, free flowering, malvaceous shrub, 6 to 10 feet high, producing a brilliant yellow flower 2 inches across. 16

45012 ACACIA FARNESIANA. Much branched shrub, 6 to 10 feet high producing large, globular heads of very fragrant deep yellow flowers. Cultivated as an ornamental and grown in France for perfume. From Venezuela. 7

42821 ACER BUERGERIANUM. Chinese maple tree which attains a height of 25 feet. 2000

45241 ACTINIDA ARGUTA. Hardy climbing deciduous woody plant producing attractive white flowers and thin-skinned fruits of sweet and pleasant flavor. A vigorous grower well adapted for covering trellises. Peculiarly free from disease. 28

42683 ACTINIDIA CALLOSA HENRYI. Climbing plant from Central China; leaves bronze red when young; flowers white, fragrant. 43

36754 AMPELOPSIS ACONITIFOLIA. Vine from China, suitable for arbors or porches. Still rare. 47

43756 AMPELOPSIS SP. 44

45095 ANACARDIUM OCCIDENTALE. Cashew nut. - Evergreen tropical tree. Fruits furnish favorite drink of Brazilians. Nut-like seeds when roasted form delicious table nut. 25

43949 ANACARDIUM OCCIDENTALE. 3

40554 ANNONA CHERIMOLA. Cherimoya. - Dwarf tree from South America; bears fruits 3 to 6 inches in diameter; delicate soft pulp, a favorite among tropical fruits. 1

43763 ANNONA CHERIMOLA. 4

43927 " " 79

44367 " " 17

45576 " " 81

45548 " DIVERSIFOLIA. Ilama or Annona blanca from Guatemala. Fruit of good quality. 85

43426 " PURPUREA. The soncuya of Guatemala. - Bears a fruit up to 6 inches in diameter; flesh juicy; fine flavor. 48

42723 " SP. Guanarvito. - From Colombia; fruit about two inches in diameter; not of high quality. 15

26565 ARALIA CORDATA. Udo. - Japanese hardy perennial vegetable; blanched shoots used like asparagus; new flavor. 7175

41924 ARUNDINARIA PUMILA. Ornamental dwarf bamboo; attains a height of 12 to 18 inches; fine for a dense ground cover or to protect steep banks from erosion. Spreads rapidly; has weedy tendency. 162

44240 BAMBOS TULDA. Timber Bamboo from India, known as the "Calcutta cane", the stems are used in the manufacture of split bamboo fishing rods; tender. 282

45085 BAUHINIA SP. Small, ornamental, leguminous, flowering tree from Venezuela, growing in dense thickets on the hills in dry, rocky, coast regions. 20

45164 BAUHINIA SP. Small, ornamental tree from Venezuela. 9

22614 BERBERIS CHINENSIS. Barberry from China; low, spreading ornamental bush. 62

36737 BERBERIS CHINENSIS. Low growing variety of barberry from China. 42

40208 BERBERIS GLAUCESCENS. Shrubby barberry received from France. 18

45477 " WILSONAE X AGGREGATA. Hybrid barberry; fine dense habit. Not hardy in Northern States. 61

40686 BERBERIS SP. Barberry from China of dense, bushy growth. 79

40687 " SP. Small barberry, growing from 1 to 3 feet; small foliage; bright carmine berries, produced in great abundance from China. 450

43038 BUCHANANIA LATIFOLIA. Tree from India about 30 feet high; bears small fruits containing edible kernels about the size of almonds. 8

45577 BURSERA SP. Tree from Guatemala; one of those which yield the Copal Gum; used in varnishes. 27

43429 BYRSONIMA CRASSIFOLIA. Nance. - A small tree from Guatemala bearing small, yellow cherry-like fruits of strong acid flavor. 28

41323 CAESALPINIA PECTINATA. Tara. - Tall spiny shrub from Peru; often used for hedges. 3

43647 CALLISTEMON SPECIOSUM. Bottlebrush. - Ornamental shrub from Australia; bears bright red flowers in terminal spikes. 115

7344 CAMOENSIA MAXIMA. Beautiful flowering vine from tropical Africa; bears large white flowers, edged with old gold; very fragrant. 81

43679 CAMPYLOTROPIS MACROCARPA. Ornamental shrub from Central China; 6 feet high; bears purple pea-like flowers. Sometimes known as *Lespedeza macrocarpa*. 11

42187 CARAGANA MICROPHYLLA. Deciduous flowering shrub, 6 to 10 feet high, from China; bears yellow flowers. Very hardy. 12

40711 CARAGANA SP. 37

45141 CARICA DODECAPHYLLA. Yacarati-a. - Relative of the papaya. Native to Argentina. Tree with a trunk attaining a circumference of 5 feet. Bears large edible fruits which are eaten raw or cooked. 316

43772 CARISSA GRANDIFLORA. Natal-plum. - Handsome, evergreen, spiny shrub from South Africa; makes an excellent hedge plant; bears a small plum-like scarlet fruit that makes an excellent jelly. 7

43649 CASSIA DIDYMOBOTRYA. Tropical ornamental shrub from Abyssinia; 7 to 10 feet high; bears long racemes of bright yellow flowers. 23

43650 CASSIA EREMOPHILA. Handsome ornamental shrub from Australia; bears clusters of small, bright yellow flowers. 82

44071 CASSIA EREMOPHILA. 26

43254 " SP. Ornamental shrub from Colombia; bears yellow flowers. 13

45504 CASTANOSPERMUM AUSTRALE. Moretonbay-chestnut. - From Queensland; bears a pod containing 4 to 5 edible seeds larger than Italian chestnuts; used roasted. 25

40017 CEPHALOTAXUS DRUPACEA SINENSIS. Evergreen conifer from China. 163

35458 CHAENOMELES LAGENARIA CATHAYENSIS. 12

37558 " " " Quince from China. Known as "Mu kua"; bears a large fruit which can be used for making jelly. 38

40550 CHAETOSPERMUM GLUTINOSUM. Philippine tree allied to the citrus; recommended for trial as a stock for citrus on dry, gravelly soils. 10

41259 CHIONANTHUS RETUSA. Chinese Fringe Tree. - Bears white flowers similar to those of the American species. 10

43561 CHORISIA INSIGNIS. Ornamental flowering tree; bears yellow flowers striped with brown about two inches in diameter; from Northern Argentina. 6

45107 CHRYSOPHYLLUM MONOPYRENUM. Tree attaining a height of 35 feet, bearing small white flowers followed by edible fruits. Native of the West Indies. 9

44383 CISSUS STRIATA. A low, shrubby, graceful evergreen vine, with yellowish flowers in many-flowered cymes; fruits about the size of a pea. Native of Chile and southern Brazil. 43

43651 CITHAREXYLUM QUADRANGULARE. West Indian tree, attaining a height of 20 to 60 feet, bearing white, odorous flowers in racemes followed by fleshy drupes. 2

40824 CITRUS HYSTRIX. Wild orange of Samoa, called "Moli" by the natives. Fruits used to make a shampoo lather. 10

39857 FICUS SYCOMORUS. The Sycamore of the Scripture; bears small edible fruits, only suited to the warmer sections of our country. 1

39858 FICUS SYCOMORUS. 55

40984 " " 1

42838 FRAXINUS OXYCARPA. Ash from Russia; resembles *F. angustifolia*. 10

44132 " SP. I-mo-don. Ash, from Chinese Turkestan; tall timber tree, able to stand rather dry, hot climatic conditions, and considerable alkali in the soil. 75

44133 FRAXINUS SP. 75

44134 " SP. Ornamental shade tree from Chinese Turkestan; very resistant to drought and alkali. 75

42085 GARCINIA EPUNCTATA. Fruit tree from Mt. Coffee, Liberia. Seed collected from wild trees growing from 20 to 30 feet in height. 22

41622 GARCINIA SP. From Brazil. A species cultivated in Rio de Janeiro Botanical Gardens. Trees 30-40 inches in diameter; bears heavy crops of large fruit, approximately two inches in diameter, with yellow acid flesh. 30

43655 GENISTA RAETAM. Shrub three to ten feet in height, found on sand dunes in Egypt, Tunis and Algeria. Pealike flowers borne in clusters of one to five. Plants reported to possess medicinal properties as a heart stimulant. 4

43775 HAEMATOXYLUM CAMPECHIANUM. Logwood. - Tall tree from southern Mexico; bears racemes of yellow flowers. Wood very hard; yields a valuable black dye. 43

45243 HIBISCADELPHUS HUALALAIENSIS. Erect tree 16 to 23 feet high, native of Hawaii. This species is almost extinct now. 21

45620 HOVENIA DULCIS. Raisin tree. - Deciduous hardy, Japanese tree; bears greenish white flowers; after flowering the peduncles thicken and become sweet and edible. 50

42727 HYMENAEA COURBARIL. Large ornamental timber tree from Colombia; yields edible fruit. 7

24638 ILEX CORNUTA. Holly from China. Evergreen shrub or small tree with spreading branches. The white flowers borne in clusters are followed by scarlet berries; not hardy in the northern states. 185

39668 ILEX INTRICATA. Low growing Holly from India; bears small white flowers and red fruit. 374

35100 INDIGOFERA AMBLYANTHA. Ornamental flowering shrub from Central China; bears dense racemes of pink flowers. 6

40183 INDIGOFERA GERARDIANA. Deciduous shrub from the Himalayas; bears pea-shaped, rosy purple flowers. 3

45869 INDIGOFERA SP. Flowering shrub from Australia. 2

42369 INTSIA BIJUGA. Leguminous tree from Madagascar, bearing terminal panicles of flowers. An important timber tree with a hard, heavy, durable heartwood used in cabinet and construction work. 10

45110 JASMINUM ANGULARE. Climbing shrub from South Africa; bears odorless white flowers. 74

40705 JASMINUM GIRALDI. Shrubby erect plant from China; bears yellow flowers. 101

39120 JASMINUM HUMILE. Small erect flowering shrub from the Himalayas; roots yield a yellow dye. 28

44233 JUGLANS MANDSCHURICA. Walnut found in Manchuria and Northern China; forms a stately tree bearing small nuts with little kernel. 47

45352 JUGLANS MOLLIS. Walnut from Guatemala; nuts as large as those of the American Black Walnut but with smaller kernel. 8

18577 JUNIPERUS CHINENSIS. Chinese Columnar Juniper. - Resembles the Irish Juniper in habit of growth. 323

43658 KALANCHOE MARMORATA. Low branching shrub from Abyssinia; bears panicles of creamy-white flowers. 18

45790 KENNEDYA MONOPHYLLA. Climbing plant from New South Wales; bears numerous blue colored flowers. 5

43947 KOELREUTERIA FORMOSANA. Small, ornamental tree from Formosa; bears terminal clusters of yellow flowers. 24

40674 CITRUS MEDICA. Citron. Small tree from the Philippines; bears large fruits, the peel of which is candied and used in confectionery. 12

44818 CLEOME SP. Herbaceous plant from Guatemala; bears numerous pale blue and white flowers. 8

44270 COCCOLOBIS DIVERSIFOLIA. Kamalia. - Small West Indian tree; bears small edible fruits allied to the sea grape. 14

42724 COCCOLOBIS SP. Small ornamental tree from Colombia, related to the sea grape. 3

44114 COCCOLOBIS SP. Small fruit-bearing tree from Costa Rica; bears a small subacid fruit; plant closely allied to the sea grape. 35

40524 COCCOTHRINAX ARGENTEA. Palm from Cuba; leaves dark green above; silvery beneath. 53

45009 COCOS DATIL. Palm from Argentina; one of the most attractive of the Cocos palms. 5

39219 COPERNICIA GLABRESCENS. Cuban hat palm called "yarey", used mostly for thatching. 2

43654 CORDIA MYXA. Moderate sized deciduous tree bearing succulent and mucilaginous fruits which, when young, are used as vegetables, or are pickled. The bark contains a fiber used to make rope. 3

35689 CORYPHA ELATA. Large tropical fan palm from the Philippines; tender. 221

34493 CUDRANIA TRICUSPIDATA. Che. - A small Chinese tree closely related to the American osage orange; produces a red, strawberry-like, edible fruit; sweet but not of much character. 687

34493 CUDRANIA TRICUSPIDATA. 82

45194 " " 205

45448 " " 722

41098 CURCUMA SP. Plant cultivated in the lower Urubamba Valley, Peru, for its aromatic yellow-fleshed rootstocks which are used for coloring food. 7

41690 CUPRESSUS GLABRA. Smooth Cypress from Arizona, recently discovered; light blue-green, glaucous foliage; not hardy in the northern states. 115

44997 DIPHYSA SP. A leguminous shrub common in the mountains of Guatemala. The foliage is coarsely pinnate, and the deep lilac flowers are produced in large clusters. 113

44677 DOCYNIA DELAVAYI. Spiny, ornamental, evergreen tree from China; bears a pear-like fruit used for cooking. 216

36973 ELAEIS GUINEENSIS. West African Oil Palm. - Variety Sombo; bears large clusters of fruits which yield a large amount of oil. One of the greatest oil plants known. 2

37869 ELAEIS GUINEENSIS. 3

40994 " " 1

43419 ENTADA POLYSTACHYA. Woody vine from Colombia; bears terminal panicles of white flowers; tender. 19

44825 ERYTHROCHITON SP. A plant from Brazil which thrives in a warm, moist atmosphere; allied to Citrus. 5

45109 EUGENIA SUPRA-AXILLARIS. An evergreen shrub from eastern Brazil; bears clusters of white flowers and black fruits about the size of a small cherry, flesh sweet, of a very resinous taste. 48

43684 EUONYMUS BUNGEANUS SEMIPERSISTENS. Large glabrous, semi-evergreen shrub or small tree bearing yellowish white flowers in loose cymes. Fruits are bright pink. Beautiful dooryard shrub. 24

43687 EUONYMUS RADICANS VEGETUS. Low spreading, hardy evergreen shrub, growing 5 feet high, bearing dense cymes of greenish white flowers and numerous capsules enclosing a bright orange aril. One of the best for dooryards. 12

44116 FICUS PADIFOLIA. Large and dense evergreen tree from Costa Rica of exceptionally beautiful habit; tender. 312

45235 FICUS PALMATA X CARICA. Fig from Algiers, Algeria. Seedlings grown from seed of *Ficus palmata* fertilized by *F. carica*. May prove of value as a caprifig. 31

43762 PSIDIUM PUMILUM. Small South American shrub related to the guava; bears small yellow aromatic fruits. 321

45587 PTEROCARYA STENOPTERA. Large ornamental tree from China; a promising shade tree for the southern states. 200

45612 PYRUS MAMORENSIS. Moroccan pear. - Very resistant to dryness in the sandy non-calcareous soils. The fruit is rather large, as are the seeds. 86

36735 RHAMNUS PARVIFOLIUS. Ornamental shrub from China, suitable for park purposes. 59

40717 RHUS POTANINI. Sumach from China; foliage takes on brilliant colors in fall; produces "Gall nuts" extensively used for black dye. 29

44075 RHUS RUFA. An erect smooth barked tree from Ceylon, with axillary and terminal panicles of white flowers; fruits black. 5

45689 RIBES FASCICULATUM CHINENSE. Handsome shrub from China, growing to four feet in height. Valued for its persistent foliage and bright scarlet berries, which remain on the branches during the whole winter. 110

45024 RIBES SPECIOSUM. Gooseberry from California. Foliage a rich dark green, appearing as though varnished. Flowers a brilliant red. 8

44094 ROLLINIA SP. Shrub from Colombia which bears an orange colored, edible fruit; the flesh is also orange colored. 10

40625 ROSA HUGONIS. Beautiful single yellow rose from China, bearing in spring abundant fragrant blossoms. Earliest of yellow roses. 323

44545 ROSA MOYESII. Var. rosea. An upright rose bush found in Szechwan, China, distinguished from the typical species by its large leaves and large pale pink flowers. Bears large fruits of dull red or scarlet. 13

43197 RUBUS STRIGOSUS. Raspberry from Manitoba; wild forms selected for the large size and quality of the fruit. 40

43198 RUBUS STRIGOSUS. 13

42728 SAPINDUS SAPONARIA. Soap tree from Colombia; bears a seed which is surrounded by a hull bearing saponin; this makes a good lather and is used by the natives as a soap substitute. 5

43663 SAPINDUS VITIENSIS. Small tree 30 feet in height from the Fiji Islands. 6

43548 SCHINOPSIS LORENTZII. Red Quebracho from Argentina. A timber tree of great value as it furnishes a very important extract dye for leather. Wood hard and durable. 12

40068 SCHIZOPHRAGMA HYDRANGEOIDES. Climbing Hydrangea. Hardy, climbing vine from Japan; bears clusters of almost white flowers. Still rare. 140

45607 SMILAX SP. This plant is used in Jamaica as a source of the sarsaparilla of commerce. 22

42815 SOLANUM BULLATUM. A South American plant from Brazil which may possibly be valuable as a forage plant because of the large percentage of protein contained in the leaves. Relished by cattle as well as horses. 5

45751 SOLANUM BULLATUM. 108

45813 SOLANUM MURICATUM. Pepino Blanco. - From Ecuador. A white or pale green fruited variety; fruits used in salads; plant tender. 59

45814 SOLANUM MURICATUM. 4

41113 " SP. Shrub from Peru attaining a height of 6 to 8 feet, with very tough wood. Has a remarkable resemblance to the orange tree and should prove valuable as an ornamental. 4

41338 SOLANUM SP. Plant 3 to 5 feet, from Bolivia; bears bluish violet flowers. 95

21967 SOPHORA DAVIDII. Leguminous Chinese shrub; bears numerous pale lilac flowers in spring. 167

43727 SORBARIA ARBOREA. Ornamental flowering shrub from Central China; bears during summer showy panicles of white flowers. 900

41931 LANTANA SP. Ornamental flowering shrub from Brazil; bears white flowers; not hardy. 147

44092 LAUROCERASUS ACUMINATA. Tree from India attaining a height of 30 to 40 feet, found in temperate portions of the Himalayas. The yellowish-white flowers are produced in many-flowered racemes. 11

42860 LAWSONIA INERMIS. Flowering shrub from Colombia, bearing fragrant flowers. 4

41558 LEYCESTERIA FORMOSA. Deciduous shrub from India attaining a height of 6 feet. The pink flowers borne in dense sprays on new wood are surrounded by red bracts. Hardy from Philadelphia south. 11

22627 LILIUM CONCOLOR BUSCHIANUM. Small scarlet flowered lily from China. Should be planted in masses. 262

39647 LINDENBERGIA HOOKERI. Ornamental yellow-flowered perennial herb from India resembling mimulus. 59

42822 LIQUIDAMBAR FORMOSANA. Ornamental Chinese tree up to 120 feet in height, closely allied to our American Sweet Gum. 1000

43271 LITHRAEA MOLLEOIDES. Evergreen shrub 12 feet high, native of southern Brazil and Argentina, bearing panicles of greenish yellow flowers. 2

42692 LONICERA SIMILIS DELAVAYI. Honeysuckle from China; bears fragrant white flowers which turn yellow; vigorous climber. 6

45015 MALPIGHIA SP. Tree or shrub from Venezuela, bearing red edible fruits. 28

42718 MAXIMILIANEA SP. Tall shrub from Colombia; bears large yellow flowers in terminal panicles. 10

42718 MAXIMILIANEA SP. 22

43659 MICROCOS LATERIFOLIA. Small tree from tropical Africa allied to the linden; the small purple berry makes a good sherbet. 16

43859 MORUS ACIDOSA. Mulberry. - Tall shrub or low tree from China; bears edible dark red fruits. 8

40215 MORUS ALBA. Mulberry. - From Afghanistan. Dried fruits contain 70.01% of sugar, and form an important article of food for the natives. 7

43281 NANNORRHOPS RITCHIEANA. Low growing palm from India, leaves 2 to 4 feet long; are beaten with a mallet to remove the fibre; used for baskets, etc. 32

44773 NANNORRHOPS RITCHIEANA. 6

42834 OLEA CHRYSOPHYLLA. Golden leaved olive; small ornamental tree from tropical Africa; bears small inconspicuous flowers followed by black olive-like fruit of no value. 16

44447 OMPHALOPTHALAMA RUBRA. Climbing shrubby plant native of the Island of St. Martin, W. I., bearing rather small dark purple flowers and green fruits which are cooked as a vegetable. 28

43385 OPERCULINA TUBEROSA. Perennial herbaceous vine from Brazil; bears long peduncles of yellow flowers. 2

38781 OPHIOPOGON JAPONICUS. Small, herbaceous, grass-like perennial from China; thrives in shady places. 54

40033 OSTEOMELES SCHWERINAE. Low shrub from China; bears white flowers followed by bluish black berries. 126

45168 PASSIFLORA SP. An ornamental Passion-vine from the fields and prairies of northeastern Paraguay. 24

39040 PICEA SMITHIANA. Coniferous evergreen spruce tree 100 to 120 feet in height, from the Himalayas; not hardy in the northern states. 70

44863 PIPTANTHUS NEPALENSIS. Shrub from the Himalayas; bears yellow flowers in dense racemes. 4

45008 PRIOTROPIS CYTISOIDES. Winter blooming leguminous bush native of the tropical Himalayas, bearing many flowered racemes of pale yellow flowers which form good bee food. Not hardy. 9

43998 PSIDIUM GUAJAVA. Seedlings of a white guava from Venezuela; the parent tree bore fruit of large size. 22

45086 SPONDIAS LUTEA. Large tree from Venezuela; bears a large yellow edible fruit known as Hobo; tender. 5

39856 TAMARIX APHYLLA. Small tree up to 30 feet, from Egypt. Suitable for use as a wind break, also as a source of firewood on desert land. 8

45952 TAMARIX APHYLLA. 20

34804 TAMARIX PENTANDRA. Tall deciduous shrub up to 15 feet with long, slender plumose branches; bears tiny pink flowers; thrives under dry climatic conditions. 1300

43953 TETRAZYGIA BICOLOR. West Indian ornamental shrub with handsome foliage, bright green above, golden yellow beneath; bears attractive white flowers. 83

45177 TETRAZYGIA BICOLOR. 10

39392 THRINAX MICROCARPA. Beautiful and very attractive palm from Florida which may prove of value as an ornamental. The leaves are silvery on the under side. 110

43669 THRYALLIS BRASILIENSIS. Ornamental Brazilian shrub; small, attractive, bright yellow flowers. 60

43755 TIPUANA TIPU. Timber tree from Argentina; bears attractive flowers; wood rose colored to creamy white; yields a fine red rosin. 17

41871 TRACHYCARPUS TAKIL. Tall stately palm from the Himalayas 40 to 50 feet high; altitude 8 to 10,000 feet. 2

44180 TRACHYCARPUS TAKIL. 33

42376 TYPHONODORUM LINDLEYANUM. Small plant from Madagascar; yields an edible starch, and from the leaf-sheath a fiber is obtained. 5

43214 ULMUS FOLIACEA SUBEROSA. Cork-barked Elm, from Kief, Russia. An elm of stiff, spreading, low habit. The branches when two or more years old, become ridged with (usually four) conspicuous corky protuberances. 73

40898 ULMUS PUMILA. Chinese Elm from Pekin; this has proven a valuable ornamental tree for the colder northern states as well as for the semi-arid ones. Rapid grower. 1000

44091 UVARIA RUFA. Tall shrub from Java, 16 to 20 feet high; bears edible fruits 1½ inches long; red colored when ripe. 32

43730 VIBURNUM BUREJAETICUM. Shrub 4 to 10 feet high, native of China. The small, light green leaves and the small umbels of white flowers, followed by the jet black berries, make this plant very ornamental. 31

41877 VITIS DAVIDII. Ornamental grape from China; bears edible fruit; leaves, petioles and stems covered with soft reddish colored spines. 9

44060 VITIS TILIAEFOLIA. Tropical grape from Guatemala; fruit sour; makes an excellent jelly. May prove valuable for breeding purposes. 375

54405 ZAUSCHNERIA CALIFORNICA. Low growing plant from California; bears scarlet fuchsia-like flowers two inches long. 103

44579 ZINZIBER MIOGA. Perennial Japanese Ginger. Bears white flowers; both flowers and bracts are eaten raw or boiled; has an acid taste and aromatic odor. 90

CHECK LIST

of

PLANTS FOR DISTRIBUTION

GROWN AT THE PLANT INTRODUCTION FIELD STATION, CHICO, CAL.

44922 ACACIA ALBIDA. Ornamental tree from northern Africa. Yields a gum similar to gum arabic. 45

45954 ACACIA CATECHU. Medium-sized tree from Egypt, bears spikes of yellow flowers. The wood yields the catechu of medicine and the cutch for tanning. 250

46049 ACACIA MELLIFERA. Small tree from Egypt; yields a gum similar to gum arabic. 150

45867 ACACIA PYCNANTHA. Yellow- flowered ornamental tree from Australia, known as the Golden Wattle. 18

45724 ACACIA SCORPIOIDES. Tree from Egypt; yields gum arabic. 70

44923 " SEYAL. A small tree from Egypt; yields a useful amber-colored gum. 100

44914 ACACIA SPADICIGERA. Small tree from Mexico, locally called "Bull-Horn Acacia", as the thorns resemble the horns of a bull. The thorns are inhabited by stinging ants. 9

44924 ACACIA VERUGERA. Tree growing to 60 feet; from Africa. 15

44865 " VILLOSA. Small, ornamental, thornless tree; bears masses of beautiful flowers; from Dutch West Indies. 9

44752 ACACIA SP. A thorny, flowering shrub or low tree from Paraguana, Venezuela. 16

44660 ACER BUERGERIANUM. Maple from Nanking, China; sometimes called *Acer trifidum*. 24

45588 ACTINIDIA CHINENSIS. 26

46124 " " 11

46131 " " Yang tao. - Beautiful Chinese vine; bears large white flowers, followed by brown fruits the size of plums and of excellent flavor. Plant half hardy. 2000

44957 ALBIZZIA LOPHANTHA. Small tree from Australia, producing yellow flowers in summer. 11

33215 AMYGDALUS COMMUNIS. The famous Jordan almond from Spain; one of the best hard-shelled varieties grown in that country. 190

33216 AMYGDALUS COMMUNIS. Hard-shelled almond from Spain; nuts of fine quality. 190

33217 AMYGDALUS COMMUNIS. Large, early, hard-shelled almond from Spain. 200

33218 AMYGDALUS COMMUNIS. A hard-shelled almond "Del Desmayo" from Spain; flowers said to be resistant to frost. 275

44686 AMYGDALUS DAVIDIANA. Wild peach from China; makes an excellent stock for peach, plum, apricot, etc.; tree very hardy; early bloomer. 28900

24807 AMYGDALUS PERSICA. Peach from Spain; fruits said to be of fine quality. 235

33219 AMYGDALUS PERSICA. "Vanqueur." - Peach from Spain, very early, fine for home use; not a good shipper. 1400

36125 AMYGDALUS PERSICA. "Sutter Creek." - Peach of large size and good quality, said to be quite resistant to peach leaf-curl. 400

Eleven new peaches from New Zealand; all, according to the report of the introducer, Mr. H. R. Wright, of fine quality.

43124 AMYGDALUS PERSICA. "A. 1." 9

43126 " " "Ice Cream." 14

43127 " " "Ideal." 33

43129 " " "Late Champion." 17

43130 " " "Lippiatt's Late Red." 33

43132 " " "Motion's Cling." 99

43133 AMYGDALUS PERSICA. "Muir's Perfection." 30
43134 " " "Osprey Improved." 28
43135 " " "Paragon." 18
43136 " " "Shipper Cling." 20
43137 " " "Up to Date." 10

26503 AMYGDALUS PERSICA NECTARINA. Nectarine from Chinese Turkestan. 200
30648 AMYGDALUS PERSICA NECTARINA. Nectarine from Chinese Turkestan; late, small-fruited; good keeping quality. 180
34684 AMYGDALUS PERSICA NECTARINA. Nectarine from Quetta, India; a fine fruit of high quality. 700

Nectarines from H. R. Wright, New Zealand. Six new varieties that come highly recommended.

43140 AMYGDALUS PERSICA NECTARINA. "Diamond Jubilee." 25
43141 " " " "Goldmine." 25
43142 " " " "Lippiatt's Late Orange." 10
43143 " " " "Muir's Seedling." 28
43144 " " " "New Boy." 22
43146 " " " "Surecrop." 34

45190 ANISACANTHUS THURBERI. Ornamental low shrub from Mexico; bears purplish red funnel-formed flowers. 50
44251 ANNONA CHERIMOLA. Custard-apple from South America; bears sweet, delicate flavored fruits, 3 to 6 inches in diameter; tender. 1600
44841 ANNONA CHERIMOLA. 50
45077 " " 9
45576 " " 40
43426 ANNONA PURPUREA. From Guatemala; bears a round fruit about 6 inches in diameter; very good quality. 7
44244 ANNONA SQUAMOSA. Sugar-apple; fruits about 4 inches in diameter; pulp soft, granular, of sweet, delicate flavor. 36
41384 ANNONA SP. From Guatemala; fruits small but of fine flavor. 15
45870 ANNONA SP. 13
23016 ASPARAGUS SP. Dwarf herbaceous asparagus from China; very attractive ornamental plant. 63
44240 BAMBOS TULDA. Bamboo from India; this yields the famed Calcutta cane used in the manufacture of split bamboo fishing rods; tender. 1600
44523 BERBERIS ACTINACANTHA. Evergreen barberry from Chile; reaches a height of 3 to 4 feet. 12
43980 BERBERIS TRIFOLIOLATA. Barberry from western Texas; fruits used in making jelly, etc. 500
41506 CARISSA CARANDAS. Small, spiny tree from India; useful as a hedge plant; fruit makes a good jelly. 2
34153 CARISSA OVATA. Spiny shrub from New South Wales; useful as a hedge plant; produces a small white fruit of good flavor. 19
41358 CASTANEA PUMILA X CRENATA. Chestnut. - Hybrid between the American chinquapin and the Japanese chestnut; produces fine nuts of good quality; plants bear nuts early. 215
41359 CASTANEA PUMILA X CRENATA. 39
41360 " " " " 3
41462 " " " " 55
45508 CECROPIA ADENOPUS. Tall tree from Paraguay; the leaves are considered a remedy for coughs. 200
46062 CELTIS SINENSIS. Ornamental tree from China, closely allied to the American hackberry; grows to a height of 30 feet. 25
37804 CITRUS GRANDIS. Alamoen. - Citrus fruit from Surinam said to be superior to the grapefruit in flavor and texture. 27
23028 CITRUS LIMONIA. Dwarf lemon from China; bears fruit freely when grown as a pot plant. Fruits of good quality; very attractive for home use. 571

44114 COCCOLOBIS. SP. Jarra. - Small tree from Costa Rica, allied to the Florida sea-grape. 54

44455 COCCOLOBIS DIVERSIFOLIA. West Indian tree related to the sea grape; bears edible fruits about the size of small cherries. 80

45900 CONDALIA LINEATA. Spiny shrub from Argentina; produces a small, edible, cherry-like fruit. 58

44589 CORNUS CAPITATA. Dogwood from the Himalayas and China. 30 to 40 feet; almost evergreen; bears whitish bracts; strawberry-shaped fruits about one inch across; not hardy. 7

40736 COTONEASTER CRENULATA. Ornamental shrub from China; bears orange-colored berries. 150

43992 COTONEASTER HORIZONTALIS PERPUSILLA. Low, prostrate shrub from China; small pink flowers followed by bright red fruits. 25

43993 COTONEASTER NITENS. Deciduous ornamental shrub from western China; bears nearly black fruits. 24

43758 COTONEASTER RACEMIFLORA SOONGORICA. Chinese shrub; erect, rarely prostrate; bearing white flowers followed by red fruits. 60

38176 CRATAEGUS PINNATIFIDA. Hawthorn from China; fruits 1 to 1¼ inches in diameter; they make a jelly and marmalade with distinctive but delicate flavor. Hardy. 2

43430 CRATAEGUS STIPULOSA. Hawthorn from Guatemala; fruits like small apples, 1 to 1¼ inches in size; make a fine jelly; tender. 175

45575 CRATAEGUS STIPULOSA. Hawthorn from Guatemala; produces small, apple-like fruits one inch in diameter; fine for jelly; not hardy. 200

41690 CUPRESSUS GLABRA. Cypress from Arizona; 25 to 30 feet in height; bluish green foliage. 2000

29174 CUPRESSUS THURIFERA. Mexican white cedar. Handsome, pyramidal tree 50 to 60 feet; tender. 25

32882 CYDONIA OBLONGA. Quince from Granada, Spain; fruits of good size and fine quality. 32

33214 CYDONIA OBLONGA. Quince from Spain. Antequera variety. Fruits of fine quality. 75

42203 DASYLIRION WHEELERI. Sotol. - Plant of the Yucca family; large flower stalks often 8 to 10 feet, very attractive. 558

44677 DOCYNIA DELAVAYI. Spiny, ornamental, evergreen Chinese tree, white flowers followed by ovoid, acid fruits one inch long; used cooked. 2

45726 DODONAEA VISCOSA. Evergreen hedge plant from Egypt, suitable for the warmer sections only. 25

45998 ERYTHRINA ARBORESCENS. Coral tree from India; bears broad racemes of vivid scarlet flowers. 14

45950 EUCOMMIA ULMOIDES. Ornamental Chinese tree called "Tu Chung". The bark contains a rubber-like substance. The tree is deciduous and hardy. 75

46061 EUCOMMIA ULMOIDES. 1000

41623 EUCALYPTUS KIRTONIANA. Fine ornamental tree; will stand light frosts. 150

45769 EUCALYPTUS TRABUTI. Hybrid eucalyptus from Algiers; said to be a cross between *E. botryioides* and *E. rostrata*. 280

44132 FRAXINUS SP. Imodon ash. - From Chinese Turkestan. Very drought resistant, good shade and timber tree for the southwest. 2200

44858 GUAIACUM OFFICINALE. Tree from Guatemala; grows to a height of 30 feet bears lavender-purple flowers; wood exceedingly hard, takes a fine polish. 65

44103 HELIANTHUS ANGUSTIFOLIA. Sunflower from the Arkansas prairies; beautiful, single, yellow flowers; blooms late in fall. 350

45243 HIBISCADELPHUS HUALALIENSIS. Tree from Hawaii, grows from 16 to 23 feet high. This is becoming a rare tree even in Hawaii. 12

43760 ILEX PARAGUARIENSIS. Yerba Mate. - Small, evergreen, South American tree; dried leaves contain caffeine; used in preference to tea by millions of South Americans. 400

44194 INODES EXUL. Palm from Southern Texas, somewhat resembling the Palmetto. 30

44243 INODES EXUL. 80

42280 " TEXANA. Palm from the Rio Grande delta; a little hardier than the various fan-leafed palms cultivated in America. 117

44199 JUGLANS REGIA. Walnut from China, collected west of Pekin. May be unusually hardy. 3

44937 JUGLANS REGIA. 41

45775 " " 1

41463 JUNIPERUS CEDRUS. Tall growing juniper from Teneriffe; excellent timber tree. 24

27505 JUNIPERUS PROCERA. Juniper from East Africa, 80 to 100 ft. tall; a tender species. 70

43698 LONICERA MACKII ERUBESCENS. Ornamental shrub from Central China; flowers pale yellow, later deep yellow; fruit red. 20

22982 LOROPETALUM CHINENSE. Ornamental shrub from China, covered in spring with masses of white flowers. 80

44769 MACADAMIA TERNIFOLIA. Queensland nut. Tall evergreen tree; bears a table nut of excellent quality; flavor resembles that of the Brazil nut. Tender but promising as an orchard tree. 160

28489 MALUS BACCATA X SYLVESTRIS. Hybrid apple raised by Dr. Walter Van Fleet. 480

40207 MALUS KAIDO. Apple from Stockholm, Sweden. 90

27060 " SYLVESTRIS. The Afghan apple from the Caucasus, Russia. Large grayish green fruits. Good keeper. 350

27152 MALUS SYLVESTRIS. Apple from the Caucasus, Russia. A large red apple for testing in the South. 39

27153 MALUS SYLVESTRIS. A very large white apple from the Caucasus, Russia. 63

30309 MALUS SYLVESTRIS. Medium-sized yellowish green apple from Chinese Turkestan, called Muz-alma. 78

30327 MALUS SYLVESTRIS. Large red apple from Chinese Turkestan, called Kizil-alma. 60

30328 MALUS SYLVESTRIS. Medium-sized white apple from Chinese Turkestan, called Ak-alma. 85

31653 MALUS SYLVESTRIS. Apple received from South Africa; a fine apple for semi-arid conditions. 100

39829 MALUS SYLVESTRIS. Limoncella apple from Italy. Fruit highly flavored, tree well adapted for warm climates. 100

Fourteen new apples from H. R. Wright, Auckland, New Zealand, who describes them as follows:

43153 MALUS SYLVESTRIS. "Cliff's Seedling." - Medium-sized, highly colored fruits of fine flavor. 20

43154 MALUS SYLVESTRIS. "Climax." - A fine dessert apple. 80

43155 " " "Coldstream Guards" - Medium to large size, attractive appearance, prolific variety. 14

43156 MALUS SYLVESTRIS. "Coles Blushing Bride." - Prolific variety of attractive appearance. A dessert apple. 2

43157 MALUS SYLVESTRIS. "Diadem." Good cooking and dessert apple. 7

43158 " " "Edward Lippiatt." - Prolific, early-bearing variety, yellow streaked with crimson; fine quality. 7

43159 MALUS SYLVESTRIS. "General Carrington." 6

43160 " " "George Neilson." - A large, early variety, resembles Red Astrakhan. 53

43162 MALUS SYLVESTRIS. "John Sharp." - Late variety bears large, greenish yellow fruits, flesh juicy and sweet. 3

43165 MALUS SYLVESTRIS. "Lord Wolseley." - Medium-sized rich yellow color, flesh juicy, subacid. 1

43166 MALUS SYLVESTRIS. "Marjorie Hay." - Large, early, red-striped, dessert apple. Flesh tender, juicy and crisp. 5

43167 MALUS SYLVESTRIS. "Mona Hay." — Fruits of medium size and exquisite flavor. 10

43170 MALUS SYLVESTRIS. "Sharp's Late Red." — Large handsome fruit. 7

43173 " " "Te Whiti." - Medium-sized, dark red fruit, of rich, fine flavor. 25

28112 MAYTENUS BOARIA. Ornamental tree from Chile; leaves and branches erect. Cattle eat the leaves and twigs. 75

44862 MEIBOMIA TILIAEFOLIA. Semi-woody leguminous plant, 2 to 4 feet tall, produces pale lilac to deep pink flowers. Native of the Himalayas. 18

43761 MORINGA OLEIFERA. Horse-radish tree. — Attractive, ornamental, 15 to 20 feet high. Pods are eaten like the string bean. 20

45708 MORUS ACIDOSA. Mulberry from Hupeh, China. Dark red, edible fruits. Plant of bushy habit, fruits early. 200

27048 MORUS ALBA FASTIGIATA. Fine ornamental mulberry of pyramidal growth. 6

30330 MORUS NIGRA. Mulberry from Chinese Turkestan. Fruit large, dark violet colored, and of pleasant flavor. 21

43281 NANNORRHOPS RITCHIEANA. Mazu palm from India, of low shrubby growth. Leaves yield a strong fiber. 20

12569 OLEA EUROPAEA. Barouni olive from Tunis. One of the largest and best of table olives. 10

12684 OLEA EUROPAEA. Bidh el Hammam olive. - A large-fruited variety from Tunis. 7

12685 OLEA EUROPAEA. Saiali Magloub olive from Tunis. Said to be one of the best medium-sized olives. 10

13257 OLEA EUROPAEA. Gross Aberkan olive from Algeria. Tree vigorous. Fruit ripens a little earlier than the Mission. 41

13567 OLEA EUROPAEA. Chemlali olive from Tunis. A variety grown extensively for oil. 25

27172 OLEA EUROPAEA. Olive from Crimea, Russia. Parent trees successfully passed through a temperature of -1° F. 18

35469 PARKIA TIMORIANA. Cupang. - From Manilla, Philippine Islands. Leguminous tree up to 130 feet in height; pods eaten by cattle; seeds roasted and eaten by the natives. 80

41722 PARMENTIERA CEREIFERA. Candle tree from Panama; fleshy fruits resemble candles. 2

46595 PENSTEMON PALMERI. Handsome flowering plant growing 3 to 5 feet high; bears light pink flowers streaked with red. 286

39040 PICEA SMITHIANA. Tall ornamental spruce tree from the Himalayas. 13

45593 PISTACIA CHINENSIS. Beautiful ornamental avenue tree from China; the leaves in fall, color a beautiful scarlet and yellow; not hardy. 25

46588 PISTACIA CHINENSIS. 250

45244 PITTOSPORUM HOSMERI LONGIFOLIUM. Ornamental evergreen shrub from Hawaii. 35

26614 POPULUS BEROLINENSIS. Berlin poplar; fine hardy shade tree. 30

22363 " SIMONII. Forma fastigiata - Poplar from Chihli, China, resembling the Lombardy Poplar in its upright habit of growth. 260

22861 POPULUS SUAVEOLENS. White-barked poplar from China. 20

38255 " TOMENTOSA. Quick-growing poplar from China; forms a tall straight trunk. 4

38232 POPULUS SP. Poplar from China, of remarkable upright growth; drought resistant. 1

43386 PROSOPIS STROMBULIFERA. A species of screw bean from Argentina; low shrub about 12 inches in height; bears bright yellow, screw-shaped pods. 32

17154 PRUNUS ARMENIACA. Large red apricot of good quality; from Tchaiching, China. 125

20072 PRUNUS ARMENIACA. Medium-sized red apricot from Manchuria; very sweet fruits. 64

33223 PRUNUS AVIUM. Garrafal le Grand. – Fine, large cherry of good quality, from Spain; season about the same as that of the Black Tartarian. 225

38337 PRUNUS GLANDULOSA. Chinese flowering cherry; 5 feet in height ; bears beautiful pink and white flowers. 1

45523 PRUNUS MUME. Japanese apricot. – Bears fragrant, white or pink flowers which are followed by sour, greenish yellow fruits. The so-called flowering plum of Japan. Remarkable pickle is made from these fruits. 200

18587 PRUNUS PSEUDOCERASUS. Small-fruited cherry from China; can be grown farther south than the common cherry. 230

30689 PRUNUS SALICINA. Plum from the Litchiang Valley, China; bears small purple fruits of good quality. 14

30690 PRUNUS SALICINA. Plum from the Litchiang Valley, China; bears small yellow fruits of good quality. 2

30691 PRUNUS SALICINA. 5

30692 " " 4

32670 " SPINOSA X DOMESTICA. Hybrid plum from Koslov, Russia; fruits small, dark purple, sweet. 60

45606 PYRUS BETULAEFOLIA. Wild Chinese pear; fruits very small. 100

21983 " CHINENSIS. "Tang li" – Small brown Chinese pear. 45

30361 " " Pear from Chinese Turkestan, known as "Kok-amoot." Fruit green, large; flesh of gritty texture; keeps well. 42

38240 PYRUS CHINENSIS. Large Chinese pear known as "Chin li" (golden pear); flesh somewhat coarse but sweet and juicy; fine keeping qualities. 47

38241 PYRUS CHINENSIS. "Pai li." – White Chinese pear with juicy, granular flesh, somewhat sweet; a good canning pear. 28

38242 PYRUS CHINENSIS. Chinese pear of apple shape; flesh hard, not of high quality; remarkable keeper and shipper. 40

38262 PYRUS CHINENSIS. Very large Chinese pear of round-oblong shape and dark yellow color; flesh coarse, juicy, sweet; good shipper. "Ner li" (swan pear). 30

38263 PYRUS CHINENSIS. Chinese pear known as "Bieng li" (luscious pear); large, dark yellow; not a good keeper. 25

38264 PYRUS CHINENSIS. Large Chinese pear known as "Sai pai li" (brittle or fragile white pear); ripens in summer; does not keep long. 35

38265 PYRUS CHINENSIS. Chinese pear known as "Sze soo li" (violet brittle pear); color purplish violet; ripens late in the spring. 23

38266 PYRUS CHINENSIS. Chinese pear called "Ny li" (milk pear); of medium size; sweet; not a good keeper. 44

38267 PYRUS CHINENSIS. Chinese pear of medium size, known as "Huang li" (yellow pear); flesh sweet ; ripens in summer; not a good keeper. 47

38268 PYRUS CHINENSIS. Chinese pear known as "Tching pee tien li" (green skin sweet pear); ripens in summer. 35

38269 PYRUS CHINENSIS. Chinese pear of medium size; sweet; ripening in summer; does not keep well. Known as "Sui pai li" (water pear). 30

38270 PYRUS CHINENSIS. Large Chinese pear of pale yellow color; sweet; not a good keeper. Known as "Gao ding pai li" (tall top white pear). 33

38271 PYRUS CHINENSIS. Medium-sized Chinese pear known as "Tien kua li" (sweet melon pear); flesh soft and mealy; not a good keeper. 40

28497 PYRUS CHINENSIS X COMMUNIS. A hybrid between the common pear and a Chinese variety. 700

43443 PYRUS CHINENSIS X COMMUNIS. A hybrid between the common pear and a Chinese variety. 250

43444 PYRUS CHINENSIS X COMMUNIS. A hybrid between the common pear and a Chinese variety; fruit large, sweet, juicy; flesh coarse. 165

33207 PYRUS COMMUNIS. Pear. – Large, lemon-yellow fruit; flesh sweet; ripens in summer. 40

33208 PYRUS COMMUNIS. Pear from Spain known as "Pera de Rosetta", of excellent quality. 47

43183 PYRUS COMMUNIS. From Auckland, New Zealand. Variety "Belmont"; an early pear of good quality. 32

43185 PYRUS COMMUNIS. From Auckland, New Zealand. "Packham's Triumph"; said to be a fine autumn pear of good quality. 19

43186 PYRUS COMMUNIS. Pear from Auckland, New Zealand. "Winter Cole"; round, of medium size, pale yellow, fine quality. 26

45612 PYRUS MAMORENSIS. Moroccan pear received from Algiers, of vigorous growth; fruit large; may prove good root stock. 65

30351 PYRUS SEROTINA. From Yarkand, Chinese Turkestan. Large greenish yellow pear, flesh granular, sweet, melting; ripens late; good keeper. 41

30352 PYRUS SEROTINA. 63

45688 " SERRULATA. Pear from Hupeh, China; closely related to *Pyrus serotina*; bears smaller fruit. 500

26485 PYRUS SP. "Ya li." - A very popular pear from China; flesh rather coarse; a good keeper. 44

26487 PYRUS SP. Chinese pear, called "Chang bor li"; fruit yellowish white; flesh coarse and not of high quality. 14

26489 PYRUS SP. Pear from Manchuria, suitable for sections where drying winds and occasional droughts prevail. 33

30308 PYRUS SP. Pear from Chinese Turkestan called "Amoot". Size medium; flesh soft, melting; ripens in late summer. 48

37071 PYRUS SP. Large Chinese pear known as "Pan chin li"; good flavor; flesh fine, white. 35

45485 PTEROGYNE NITENS. Tall tree from Argentina and Brazil; yields a strong, tough wood used in making carts. 200

8599 PUNICA GRANATUM. Red pomegranate called "Achmar"; fruits large; seeds surrounded by a deep wine-red arillus. 2

8646 PUNICA GRANATUM. Pomegranate. - A red-fleshed variety; large thin-skinned fruits. 1

12568 PUNICA GRANATUM. Pomegranate from North Africa; a white fruited variety. 2

27966 PUNICA GRANATUM. Bright red pomegranate from the Caucasus, Russia. 25

33227 PUNICA GRANATUM. Pomegranate - "Negro monstruoso". Variety from Spain. 2

33229 PUNICA GRANATUM. Pomegranate from Spain, known as "Granado de Rogises". 17

44461 RANDIA ACULEATA. Dwarf West Indian shrub, known as the "Indigo berry"; bears a globose fruit that yields a fast blue dye. 2

32390 RHUS LANCEA. The "Karree boom" of Transvaal, South Africa. Valuable hardwood tree; bears edible fruits. 60

44658 ROLLINIA MUCOSA. Low West Indian tree related to the Annonas; bears edible fruit about four inches in diameter; tender. 55

44659 ROLLINIA MUCOSA. 40

44544 ROSA BANKSIAE NORMALIS. Climbing rose from Hupeh, China; flowers fragrant, pure white. 36

45729 ROSA HELENAE. Fragrant, white rose from Hupeh and Szechwan, China. 15

39593 ROSA ODORATA GIGANTEA. Strong-growing rose; pale pink single flowers of very large size; not hardy. 25

44546 ROSA RUBUS. Rose from Central China; white, fragrant flowers, followed by dull red fruits. 20

44878 RUPRECHTIA FAGIFOLIA. Ornamental tree from South America; bears yellowish flowers, that later turn pink. 15

17737 SALIX SP. Attractive round-headed willow tree from China, especially well suited to the drier sections. 200

42038 SAPINDUS SAPONARIA. "Jaboncillo". - From Mexico; bears a fruit, the outer hull of which, when boiled, yields saponin, a valuable constituent of soap.

21967 SOPHORA DAVIDII. Ornamental Chinese shrub, 6 to 10 feet tall; covered in spring with pale blue, pea-shaped flowers. 300

43666 SPARTIUM JUNCEUM. Shrub from Southern Europe; grown for its showy flowers, and for the fiber contained in the branches. 6

35261 TAMARIX CHINENSIS. Ornamental flowering shrub from China; rapid growing; suitable for hedges or wind breaks; adapted to the drier sections of the country as it stands drought very well. 220

45622 TIPUANA TIPU. Timber tree from South America; bears showy yellow flowers; wood rose colored; yields a red rosin. 18

44670 TRACHYCARPUS EXCELSUS. Fan palm from Kansu, China; will stand +10° F.; grows from 30 to 40 feet in height. 30

44180 TRACHYCARPUS TAKIL. Fan palm from the Himalayas; 40 to 50 feet in height. 7

40898 ULMUS PUMILA. Chinese elm from Pekin. Ornamental tree that has proved well adapted for the colder regions of our country, and also thrives in the dry Southwest. 1000

43731 VIBURNUM DILATATUM. Ornamental Chinese shrub, 6 to 10 feet tall; white flowers followed by clusters of bright red fruits. 140

43732 VIBURNUM HUPEHENSE. Ornamental deciduous shrub from China; whitish flowers followed by red fruits. 5

43735 VIBURNUM THEIFERUM. Ornamental deciduous shrub from China, up to 12 feet tall; cymes of white flowers followed by red fruits. 8

43736 VIBURNUM WRIGHTII. Ornamental, deciduous, flowering shrub; bears cymes of white flowers followed by oval red fruits. 12

42790 VITEX LUCENS. Puriri. - Handsome tree from New Zealand, sometimes called "New Zealand Oak"; grows from 50 to 60 feet in height; yields a fine hard durable wood; not hardy. 10

45193 ZAUSCHNERIA CALIFORNICA Half-hardy perennial; bears showy scarlet fuschia-like flowers, native to the south-western states. 300

CHINESE JUJUBE, OR TSAO.

A small deciduous tree which flowers after all danger from frost is past; bears small fruits, 1 to 2 in. long, that turn a rich brown in irregular blotches. The fruits are eaten fresh, or dried (after boiling in syrup). When processed they are as palatable as dates. An important commerce in them should be built up.

17752 ZIZIPHUS JUJUBA. 90
17892 156
22684 "Mu shing hong tsao". 47
22686 "Lang tsao". 220
30488 338
35254 "Wu hu tsao, or Ta tsao". 44
35256 "Tang tsao" (sugar jujube). 42
36854 "Yu tsao" (tooth jujube). 35
37475 "Ta tsao" (big jujube). 83
37476 "Ta hong tsao"(large red jujube). 45
38243 "Ta yuan tsao" (big round jujube). 64
38249 "Li tsao" (pear jujube). 1
38250 "Po po tsao" (mother-in-law jujube). 1
38258 "Hui tsao" (ashy jujube). 5
38260 "Chui yueh tching tsao" (ninth moon green jujube). 11

INDIAN JUJUBE.

From Port Louis, Mauritius. Bears fruits with mealy pulp, and sweet, pleasant taste; 1 to 1½ inches in diameter; not hardy.

45625 ZIZIPHUS MAURITIANA. 28
45629 10
45630 31
45639 30
45640 8
45644 8
45646 13
45656 24
45657 35

CHECK LIST

of

SEEDS FOR DISTRIBUTION

27810	ABELMOSCUS ESCULENTUS. Okra from Russia. A fine variety said to be unexcelled for table use.	190 pkts.
21969	ALBIZZIA KALKORA. Small ornamental shrub from China. Leaves finely pinnate; flowers with light pink, long exserted stamens.	24 pkts.
44294	ALLIUM FISTULOSUM. Peculiar variety of Chinese winter leek; very short growth; looks like a slender onion; flavor very good.	20 pkts.
45183	AMARANTHUS GANGETICUS. Leaves are used as a vegetable during the heat of summer.	30 pkts.
44178	AMARANTHUS PANICULATUS. From India. The seeds form one of the staple foods of the poorer classes in many parts of India.	21 pkts.
44469	AMARANTHUS PANICULATUS.	40 pkts.
45535	" "	15 pkts.
31835	ASPARAGUS FALCATUS. From South Africa. An ornamental climbing plant bearing large panicles of creamy-white, sweet-scented flowers.	6 pkts.
45995	ASTRALAGUS SINICUS. Genge clover from Japan. A field crop grown extensively for food, the tender tips of the stems being served after boiling or steaming.	79 pkts.
43999	BAILEYA MULTIRADIATA. A very handsome perennial plant from the southwestern United States and northern Mexico. It bears long-stalked heads of bright yellow flowers.	90 pkts.
38783	BRASSICA NAPIFORMIS. Turnip-rooted Chinese cabbage.	10 oz.
36054	" PEKINENSIS. Pai ts'ai, or Chinese cabbage; from Tientsin, China. Selected heading strain; tender hearts make a delicious salad, also excellent boiled.	6 pkts.
38782	BRASSICA PEKINENSIS. Pai ts'ai; from Shantung, China. A fine variety which can be stored for winter use.	5½ oz.
40604	BRASSICA PEKINENSIS.	2½ oz.
40840	" "	3 oz.
44291	" "	1½ oz.
44292	" "	54 pkts.
44312	" "	62 pkts.
44892	" "	447 pkts.
44935	" "	5092 pkts.
45185	" "	50 pkts.
45186	" " "Ya hao pai ts'ai." - A variety of Chinese cabbage of open growth; used boiled, like kale.	125 pkts.
45187	BRASSICA PEKINENSIS. "Hei pai ts'ai."	12 pkts.
45252	" " "Yu ts'ai." - Selected variety of Chinese cabbage.	65 pkts.
45530	BRASSICA PEKINENSIS. A loose-headed variety of "pai ts'ai." Used in soups or chopped up as spinach.	44 pkts.
45531	BRASSICA PEKINENSIS. Pai ts'ai. Heading varieties of Chinese cabbage; the hearts make a delicious salad; can also be used in the same way as common cabbage.	378 pkts.

45969	BRASSICA PEKINENSIS.	5500 pkts.
45263	" SP. Mustard from Hankow, China.	25 pkts.
45310	" "	8 pkts.
46401	" "	6½ oz.
46402	" "	3½ oz.
41646	CAJAN INDICUM. Pigeon pea. - Shrubby plant 4 to 10 feet high; grown in the tropics for the nutritious peas it yields. The peas also make fine poultry feed.	111 pkts.
45982	CAJAN INDICUM.	6 oz.
46007	" "	8 oz.
46050	" "	50 lbs.
38788	CAPSICUM ANNUUM. Selected elongate variety of Chili pepper, from China. Pods dried and kept for winter use.	45 pkts.
36069	CARICA CANDAMARCENSIS. Mountain papaya from Ceylon. Fruits too acid for dessert use, but very agreeable stewed.	95 pkts.
45141	CARICA DODECAPHYLLA. Relative of the Papaya from Argentina. The trunk, which the natives hollow out for canoes, attains a circumference of 5 feet.	7 pkts.
44142	CARICA PAPAYA. Papaya seeds received from several sources. This is a valuable melon-like fruit, used extensively as a dessert fruit in the tropics. It is also the source of vegetable papain.	13 pkts.
44941	CARICA PAPAYA.	12 pkts.
46334	" "	2¾ oz.
40797	CHENOPODIUM QUINOA. Annual plant cultivated on the dry slopes of the Andes for its nutritious seeds. Used in soups or prepared similar to rice.	150 pkts.
26789	CICER ARIETINUM. Garbanzo or Chick Pea. Bears a small pealike pod containing 1 or 2 seeds. Used boiled or ground to meal, when it makes an excellent substitute for corn meal. Especially suited for dry regions.	2 lbs.
26898	CICER ARIETINUM.	60 lbs.
27513	" "	6 lbs.
28620	" "	2 lbs.
46008	" "	14 oz.
P.I.G. 15813	CITRULLUS VULGARIS. Watermelons from various sources; these are of purely experimental value, however, as they have never been tried in this country. The seeds were taken from selected fruits.	24 pkts.
35250	CITRULLUS VULGARIS. From Argentina.	130 pkts.
41164	" " " South Africa.	7 pkts.
41471	" " " Turkey.	19 pkts.
45549	CRANIOLARIA ANNUA. Martynia from Guatemala; grows to a height of about 4 feet. Produces along the stem numerous, gloxinia-like, white flowers with a purplish blotch in the throat.	8 pkts.
28344	CROTOLARIA CANDICANS. Bright yellow flowered ornamental plant used in India as a green manure crop.	200 pkts.
44786	CRYPTOSTEGIA GRANDIFLORA. Twining woody plant, native of India but cultivated in many places for the rubber contained in the sap.	15 pkts.
41690	CUPRESSUS GLABRA. Smooth cypress. - A handsome ornamental evergreen from Arizona. Foliage deep glaucous green. Not hardy in the northern states.	150 pkts.

46137 DERINGA CANADENSIS. Vegetable from Japan; leaf stalks used raw or boiled as we use celery. Leaves chopped and used as flavoring. One of the highest priced vegetables in Japan. 195 lbs.

31819 ERUCA SATIVA. Rocket salad. - Low growing European plant, used as a spring and autumn salad. 60 pkts.

31820 ERUCA SATIVA. 7 pkts.

46501 " " 3 lbs.

44103 HELIANTHUS ANGUSTIFOLIUS. Sunflower from Arkansas. Perennial plant of pleasing habit, with flowers somewhat resembling yellow cosmos. May be used much as cosmos is for tall, mass effects and cut flowers. 46 pkts.

46001 HIBISCUS SABDARIFFA. Roselle. - From the British West Indies. Biennial, 3 to 5 feet high, producing an abundance of large, bright red calyces in autumn. Very ornamental when in bloom. Calyces make a fine sauce, similar to that made from cranberries. 7 pkts.

45184 IPOMEA REPTANS. An annual herb, cultivated by the Chinese as a leaf-vegetable in hot weather. It is prepared and eaten much as spinach. 5 pkts.

45887 IPOMEA SP. Morning glory from Panama. This morning glory is said to keep open all day. 23 seeds.

36598 LAGENARIA VULGARIS. Gourd from southern Nigeria. The oil extracted from this seed has considerable value and is said to be one of the constituents of the far-famed Palaver sauce. 48 pkts.

31102 LALLEMANTIA IBERICA. From Europe. This plant is introduced in order to test its value as an oil crop, the oil being considered one of the finest drying oils for varnishes. 48 pkts.

45308 LENTILLA LENS. Lentil from China. A small brown variety of lentil, which is eaten boiled in stews and soups. 33 pkts.

46009 LENTILLA LENS. 8 oz.

46152 " " 11 oz.

46338 " " 8 oz.

41721 MOMORDICA CHARANTIA. A creeping plant from China, bearing white and yellow fruits in autumn. Is used in soups and as a vegetable. 60 pkts.

46386 MORINGA OLEIFERA. Horse-radish tree from Nicaragua. A small tree, cultivated as an ornamental in Cuba, usually 16 to 20 feet in height. The white flowers are borne in panicles, the slender pods are often a foot long. 44 oz.

45112 ORTHOCARPUS PURPURASCENS. A Californian annual plant about a foot high, with gaudy bracts and crimson or purple corollas, about one inch long. 47 pkts.

45265 PERILLA FRUTESCENS. From China. An annual herb grown entirely for its seed, from which is extracted an oil that is used in water-proofing. Seed also used as bird seed. 38 pkts.

45264 PERILLA NANKINENSIS. Annual herb from China; generally with purple foliage, though green plants occur. The young plants are eaten as a pot herb or to give flavor to soup. 32 pkts.

45496 PHALARIS CANARIENSIS. Canary seed from Uruguay. Said to be an excellent variety. 6 pkts.

46427 PHASEOLUS CALCARATUS. Rice bean from China. Eaten in soups. Cultivated as a food plant in Japan, China, India, Java, and the Philippines. Adapted to practically the same area as the cowpea. 4 lbs.

Seeds of beans from different countries. These varieties have not been tested in this country, and are, therefore, of purely experimental value.

PHASEOLUS COCCINEUS. Scarlet Runner Bean.

46142	from Colombia.	7½ oz.	46193	from Chile.	6 oz.
46145	" "	5 oz.	46525	" "	9 oz.

PHASEOLUS LUNATUS. Lima Bean.

42270	from Madagascar.	7 pkts.	46360	from Venezuela.	7 oz.
46178	" Venezuela.	11 oz.	46361	" "	7 oz.
46304	" Paraguay.	54 oz.	46490	" Argentina.	5 oz.
46359	" Venezuela.	7 oz.			

PHASEOLUS VULGARIS. Common Bean.

41660	from Brazil.	9 pkts.	46364	from Venezuela.	7 oz.
44710	" "	52 pkts.	46365	" "	7 oz.
45296	" China.	33 pkts.	46366	" "	7 oz.
45297	" "	22 pkts.	46367	" "	5 oz.
46164	" Uruguay.	7 oz.	46368	" "	7 oz.
46165	" "	6 oz.	46369	" "	7 oz.
46179	" Venezuela.	10 oz.	46370	" "	7 oz.
46180	" "	12 oz.	46491	" Argentina.	5 oz.
46181	" "	11 oz.	46492	" "	5 oz.
46195	" Chile.	6 oz.	46493	" "	5 oz.
46196	" "	6 oz.	46494	" "	5 oz.
46197	" "	7 oz.	46495	" "	5 oz.
46199	" "	8 oz.	46510	" Brazil.	5 oz.
46201	" "	6 oz.	46511	" "	5 oz.
46202	" "	8 oz.	46512	" "	5 oz.
46231	" "	6 oz.	46513	" "	5 oz.
46232	" "	7 oz.	46514	" "	5 oz.
46322	" "	13 oz.	46515	" "	5 oz.
46323	" "	13 oz.	46516	" "	5 oz.
46324	" "	13 oz.	46517	" "	5 oz.
46325	" "	13 oz.	46518	" "	5 oz.
46326	" "	13 oz.	46528	" Chile.	9 oz.
46362	" Venezuela.	7 oz.	46529	" "	5 oz.
46363	" "	7 oz.	46530	" "	9 oz.

46588 PISTACIA CHINENSIS. From the Plant Introduction Field Station, Chico, California. Seed of trees raised from the first seed introduced (1908. S.P.I. No. 21970). Fine ornamental tree; foliage turns brillant red and yellow in the fall. 1000 pkts.

46429 PISUM SATIVUM. Garden pea from China. Large variety; eaten boiled, steamed, or roasted. 58 oz.

45192 QUAMOCLIDION MULTIFLORUM. Low perennial from the Southwest; bears clusters of attractive purplish red flowers. 85 pkts.

43440 SICANA ODORIFERA. Peculiar melon-like fruit from Guatemala; color bright red; flesh very fragrant. 100 pkts.

21976 VITEX NEGUNDO INCISA. Tall woody plant growing on dry alkaline lands; bears delicate blue flowers in terminal panicles. Recommended as an ornamental and as a bee plant.465 pkts.